

Fig. 1

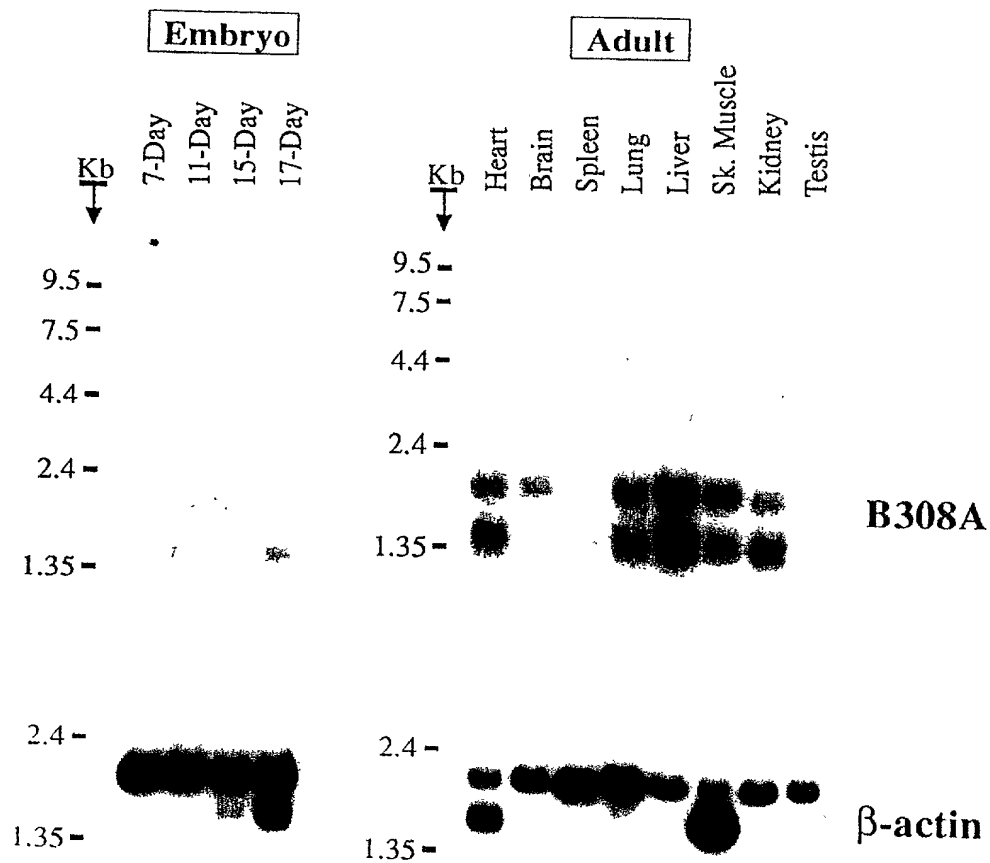


Fig. 2

1 TTGCCCTCAA CAAAGATGGT CTTTATGGTA CAGGTTCCCT AGCAGTCTGG
 51 ATTCCGGTTG TAGTTTTAGT TATCTTTTTT TTTTTTTTTT TAAACGGTAC
 101 GTGGTCGCAG ACGAAGAAAT GGAAGCCAGA GACAAGCAGG TACTCCGCTC
 151 CCTGCGTCTG GAGCTGGGTG CCGAGGTACT GGTGGAAGGA CTGGTTCTTC
 201 AGTACCTTTA CCAGGAAGGA ATTTTGACAG AAAACCACAT TCAAGAAATC
 251 AAAGCTCAAA CCACAGGCCT CCGGAAGACA ATGCTGTTGC TGGACATCCT
 301 GCCTTCCAGG GGCCCCAAAG CTTTGTACAC CTCCTCGAT TCCCTCCAGG
 351 AATTTCCCTG GGTAAGAGAG AAGCTGGAGA AGGCGAGAGA GGAAGTCTCA
 401 GCCGAGCTGC CTACAGGTGA CTGGATGGCC GGAATCCCCT CACACATCCT
 451 CAGCAGCTCG CCATCAGACC AGCAGATTAA CCAGCTGGCT CAGAGGCTAG
 501 GCCCGGAGTG GGAGCCCGTG GTCCTGTCTC TGGGACTGTC CCAGACCGAC
 551 ATCTACCGCT GCAAGGCCAA CCATCCCCAC AACGTGCATT CGCAGGTGGT
 601 GGAGGCCTTT GTCCGCTGGC GCCAGCGTTT TGGGAAGCAG GCCACCTTCC
 651 TAAGCTTACA CAAGGGCCTC CAGGCAATGG AGGCTGATCC CTCCCTGCTC
 701 CAGCACATGC tGGAGTGACC TGACCCCCC CCGCGCCCC CCCCCACTTG
 751 CTGTGGGGGT GGTGGGGCGT GGGTTCCCAA GTCACACTGG CTGAACCGGA
 801 CTTTTCTCAG CAGGTGGCTT TGTCTGGGC TTTTCAGTA TCTGTTTACG
 851 GAAAGAGATC GTCCACCACT CACTCAACCA TCGATTGGCT TTAATTGCTT
 901 GAAGACTGCG CTGTTGTAAC TATGGTTTGG AACTTTGTGG CTGGCCTTTA
 951 ACAGGAGGCC AGAAAAAACA CAACACCCAC CCTACCCAAC CCCCCAAAAA
 1001 ATCATGCTAC AGCATCGAAT GCAGGTGTCC TGCATACAAG GCAGCTACAC
 1051 TTGTGTTGCC TGGAGACTGG ATTGTGCATT TAGCTCTTCA TAATGGTGAT
 1101 GATAATAAAA AAGCAAATTG TGATATAGAA TGTGCCTCTT TCAATGAGAG
 1151 AGTATTATAT CACACACACA CACACACACA CACACACACA TACACACACA
 1201 CACACCAATC TTCTGTTGCA TAGACGGAGG GTGTAAAAAT ATGGGAGTGG
 1251 AGCAAGATTG ATAGCAGTCA TGTGACGACG GAGATAAATA ACTCAGGCAG
 1301 GATGTATAGA TTAAGCATGA GACACCGAAG CTCCTGCAG AGGCCAGGGA
 1351 GAGAACGGAA GACCTTCATC TTAACAAATT GTATGAGGAG TCTCTGTCCA
 1401 TTTGTTAAAG GCATTGGATC AGAGACAAGA GGGCTCAGTG TTTCTCTTGA
 1451 GGCCTGAATG GCTGAAGGCG GTGAGTTCCC GAGGGGCGTC ATGGGTTGTC
 1501 CAGCCTTTCA TTAAGTCAC ATAGTGTTAG CCAGACAGGT GTACGTGTTT
 1551 GTCATCCCAT CTAAGAGACT GAAGCAGGAG GATCACCTGT ACATGACTGC
 1601 TTCTTTCAAC ATTTTAAAAAT GTGTAACCTC TATTAAATTC TCTCAGTGCA
 1651 AAAAAAAAAA AAAAAAA

Fig. 3A

MEARDKQVLRSLRLELGAEVLVEGLVLQYLYQEGILTENHIQEIKQTTG
 LRKTMILLDILPSRGPKAFDTFLDSLQEFPPWREKLEKAREEVSAELPTG
 DWMAGIPSHILSSSPSDQQINQLAQRLGPEWEPVVLISLGLSQTDIYRCKA
 NHPHNVHSQVVEAFVRWRQRFQKQATFLSLHKGLQAMEADPSLLQHMLE"

Fig. 3B

(1) →
 1 GAAGAAATGG AAGCCAGAGA CAAGCAGGTA CTCCGCTCCC TGCCTCTGGA
 (2) →
 51 GCTGGGTGCC GAGGTACTGG TGGAAGGACT GGTCTTTCAG TACCTTTACC
 101 AGGAAGGAAT TTTGACAGAA AACCACATTC AAGAAATCAA AGCTCAAACC ←
 (3) ←
 151 ACAGGCCTCC GGAAGACAAT GCTGTTGCTG GACATCCTGC CTTCCAGGGG
 (4) ←
 201 CCCCAAAGCT TTTGACACCT TCCTCGATTC CCTCCAGGAA TTTCCCTGGG
 251 TAAGAGAGAA GCTGGAGAAG GCGAGAGAGG AAGTCTCAGC CGAGCTGCCT
 301 ACAG

Fig. 4

1 ggaaatggag gctagagaca agcaagtgct tcgctccctt cgcctggagt
 51 tgggtgcaga ggtactggtg gaggggctag tcctccagta tctttatcag
 101 gaaggggtct tgacagaaaag ccacgttcaa gaaattaaag ctcaagccac
 151 aggcctccgg

Fig. 5

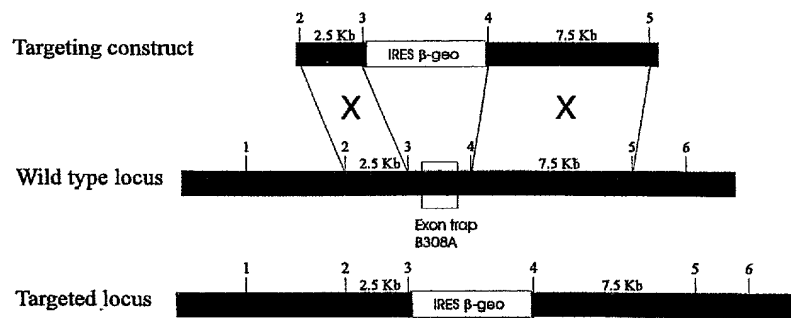


Fig.6

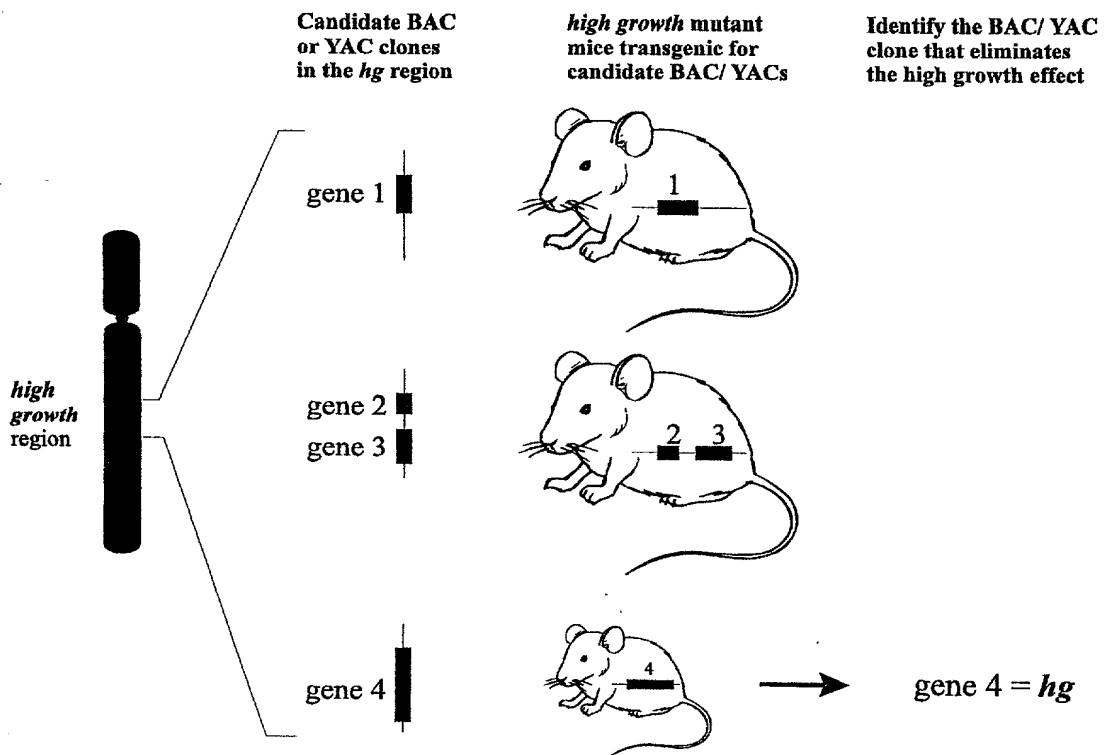


Fig. 7

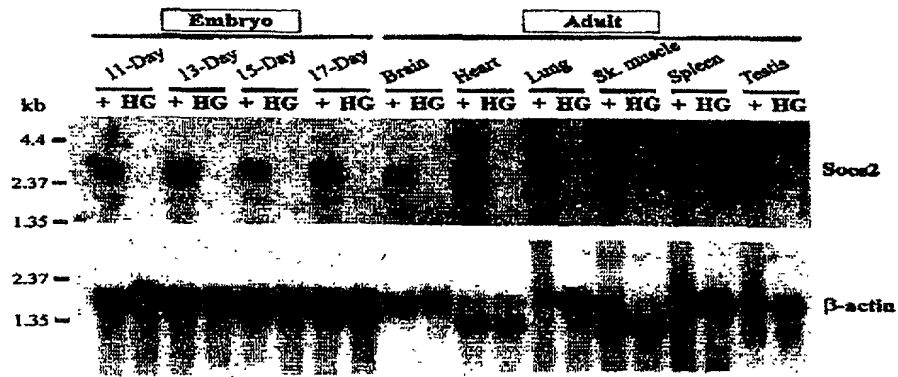


Fig. 8

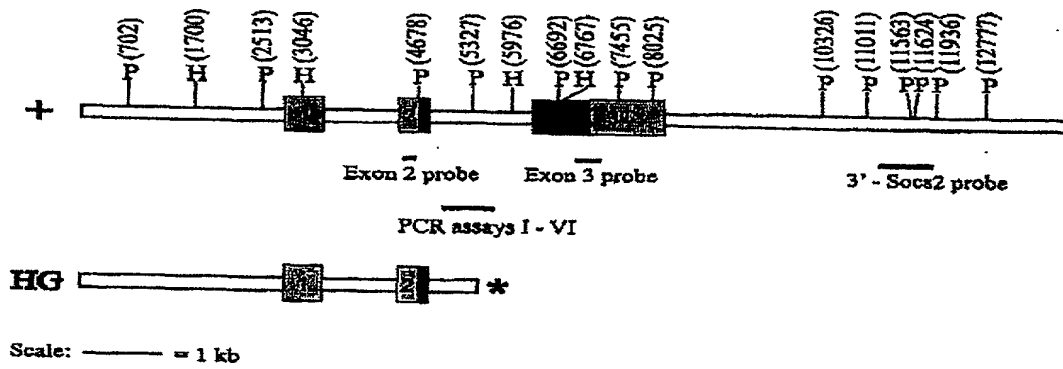


Fig 9a

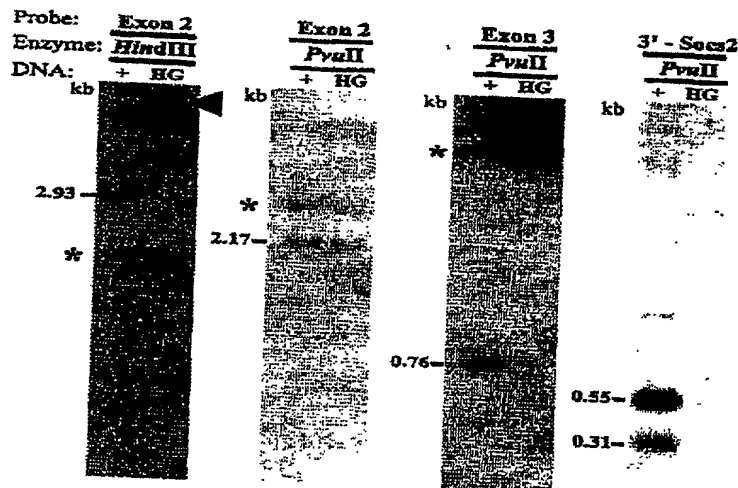


Fig 9b

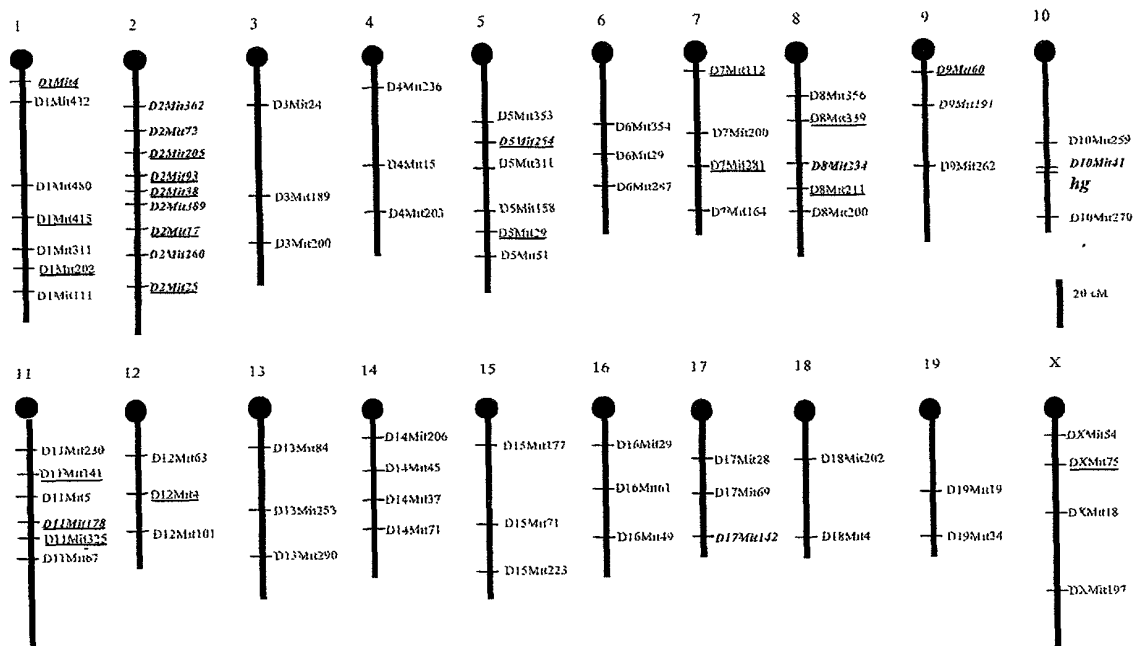


Fig. 10

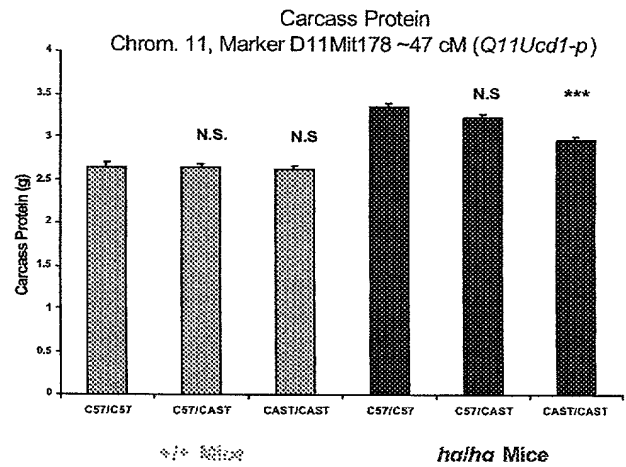
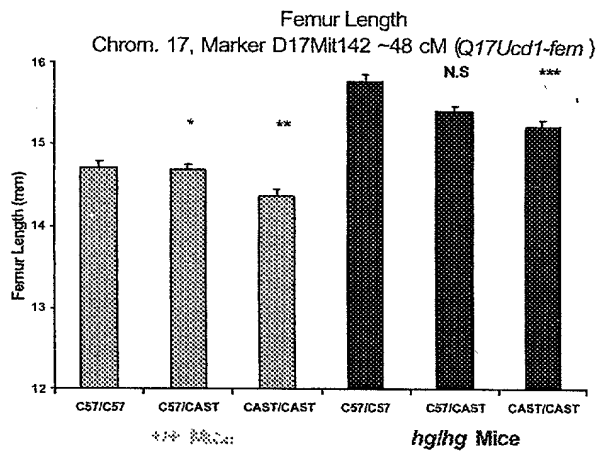
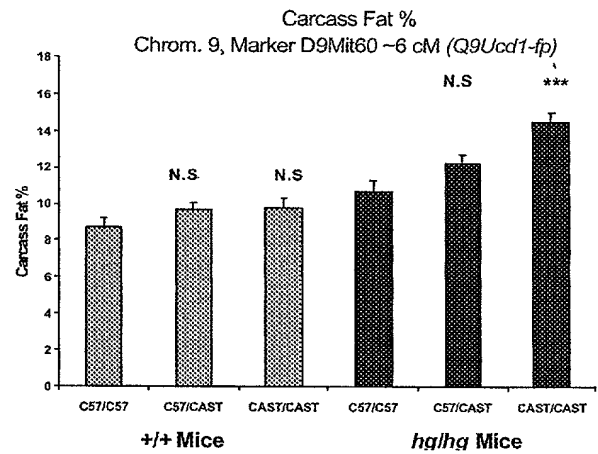
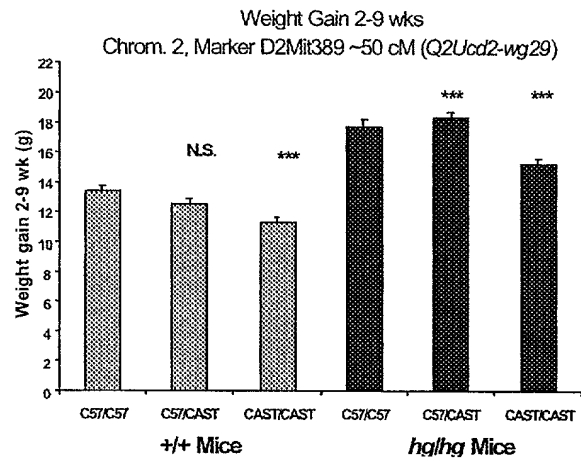
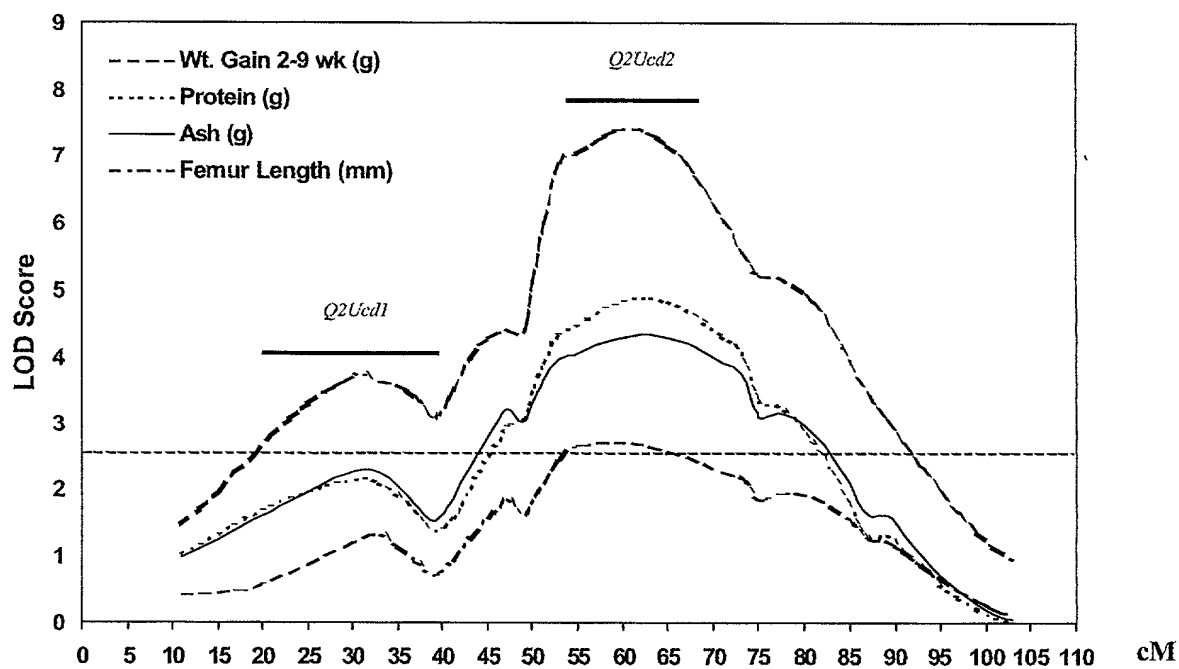


Fig. 11

A: *hglhg* mice



B: *+/+* mice

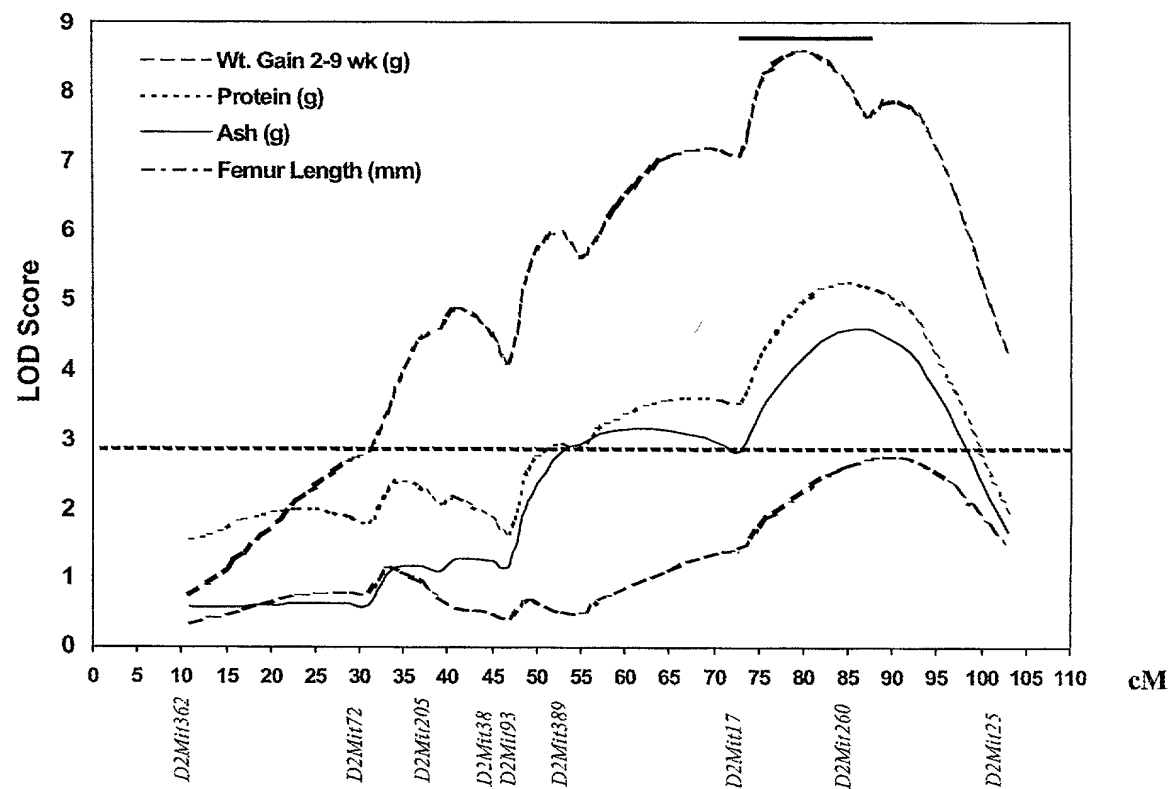


Fig. 12

Deletion breakpoint in
intron 2 of *Socs2/Cish2*

Deletion breakpoint
excluding *Vespr*

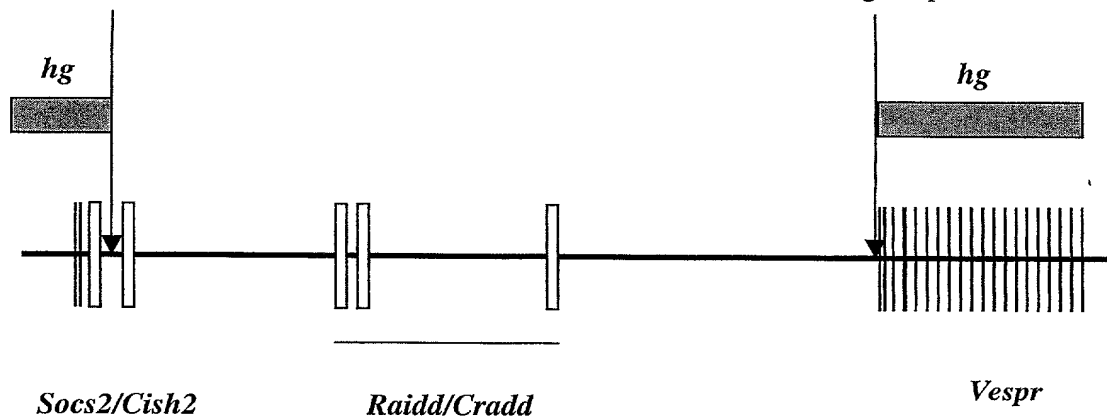


Fig. 13

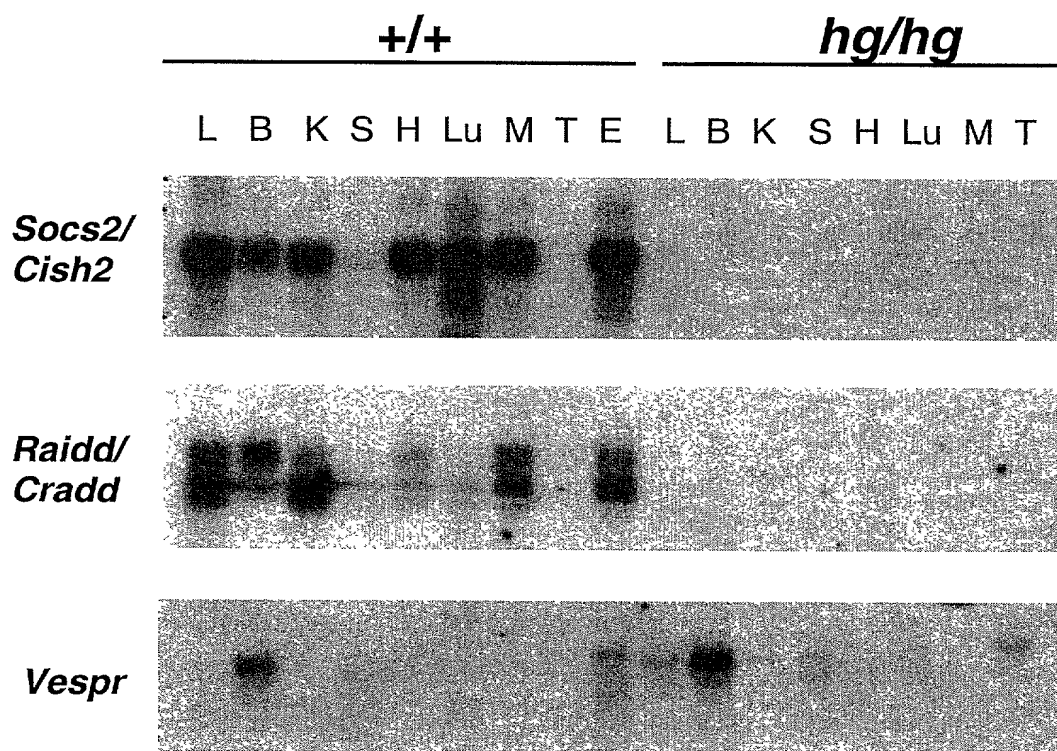


Fig. 14